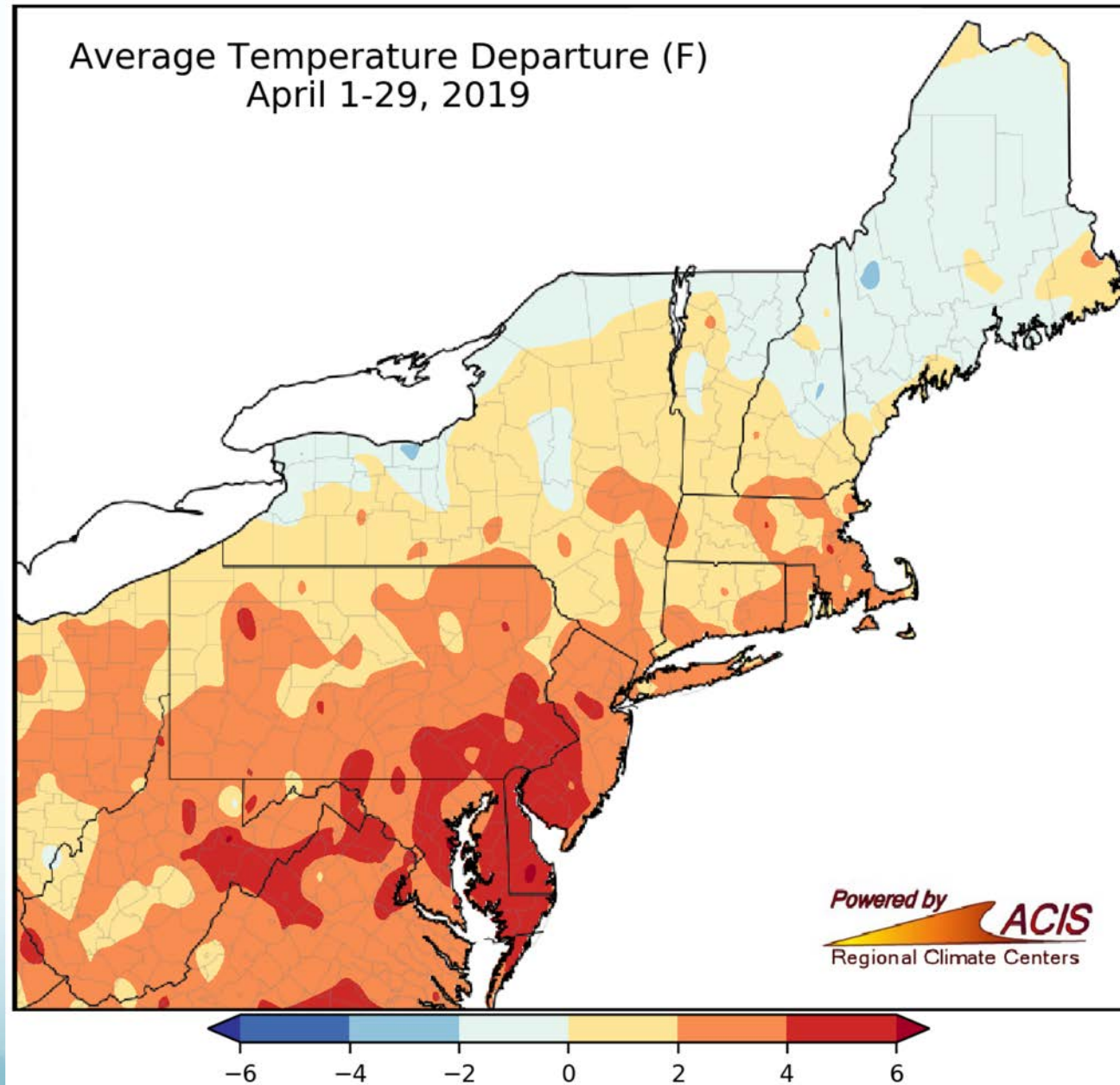


April Recap & Northeast DEWS Discussion

By: Samantha Borisoff, Climatologist
Northeast Regional Climate Center

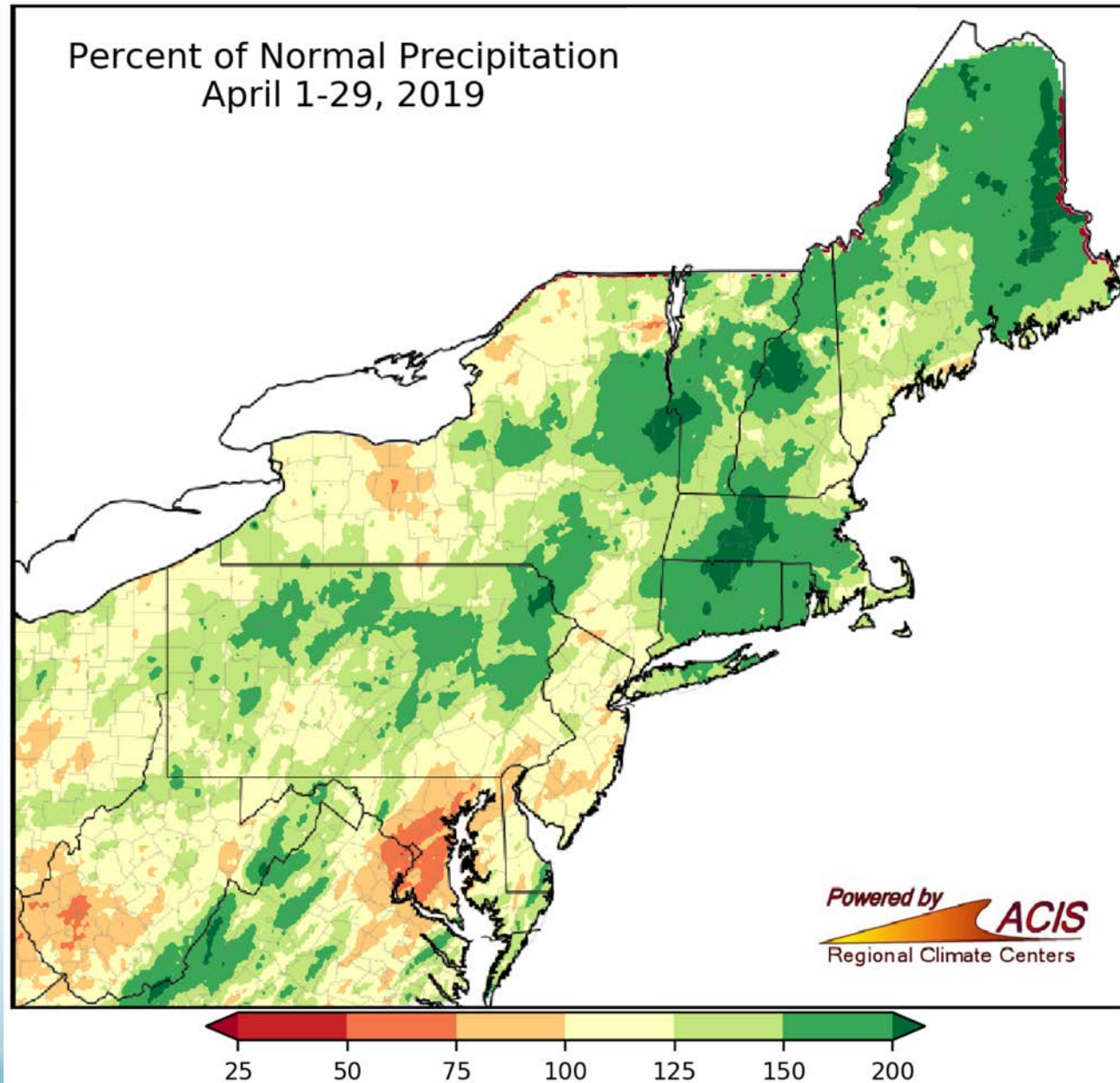


April Temperatures



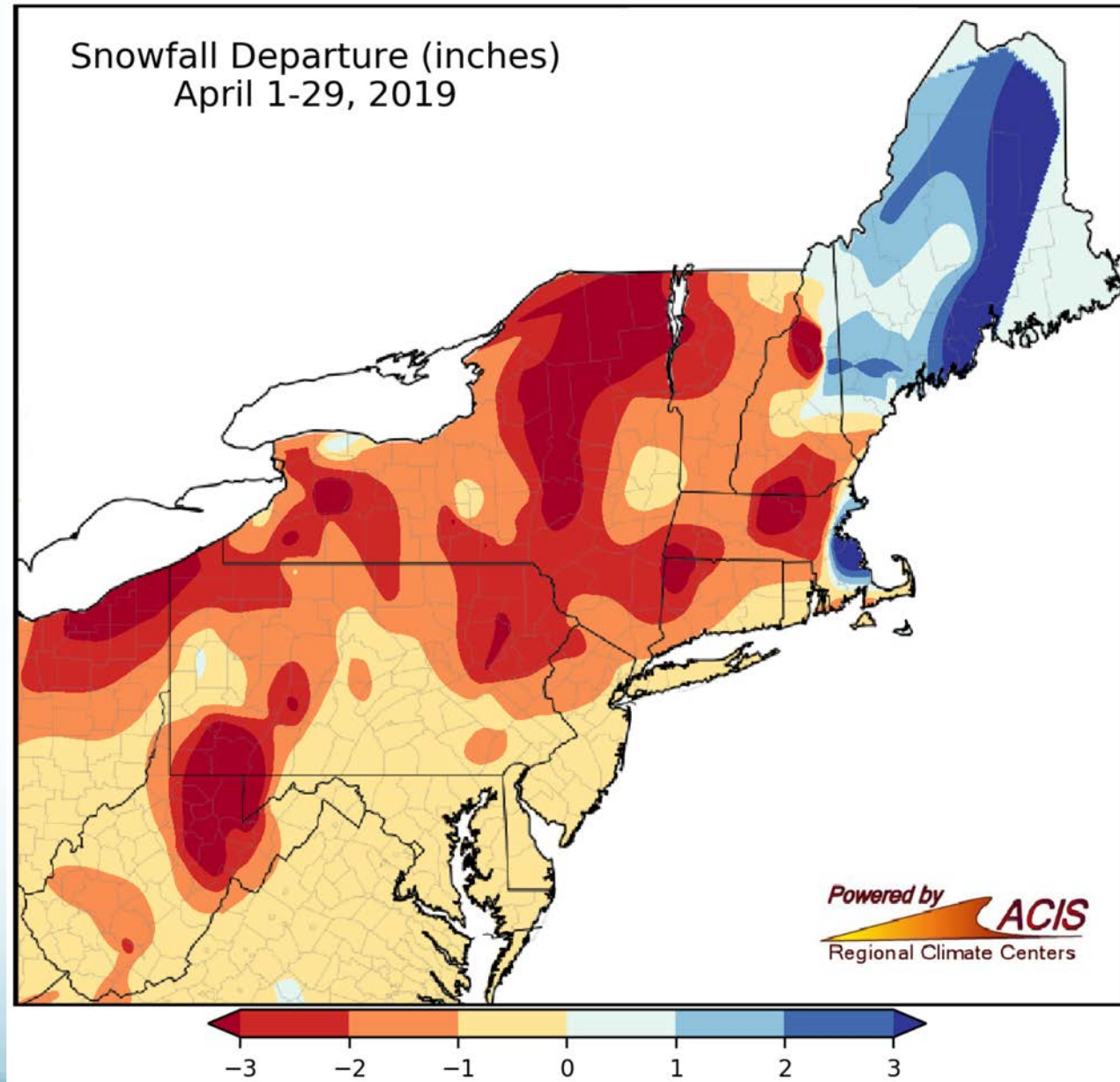
From 2°F below normal to 6°F above normal

April Precipitation



From 50% of normal to 200% of normal

April Snowfall



From more than 3" below normal to more than 3" above normal

Caribou Snow Depth

Record 163 consecutive days with at least 1" of snow on the ground from Nov. 10, 2018 – Apr. 21, 2019

Previous record was 155 days from Nov. 17, 2002 – Apr. 20, 2003

All photos courtesy of NWS Caribou



Feb. 27 snow depth: 43"
drifts as high as 10 ft.



NetCamXL Sun Mar 31 16:02:09 2019
Exposure: 36

Mar. 31 snow depth: 29"



Apr. 22 snow depth: Trace

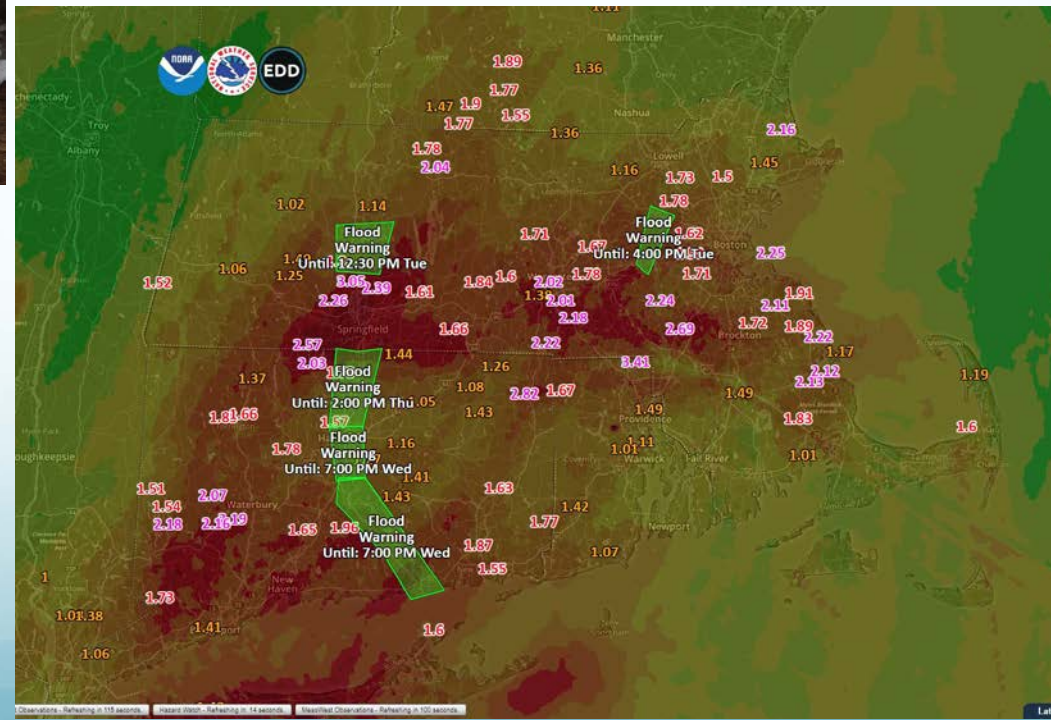
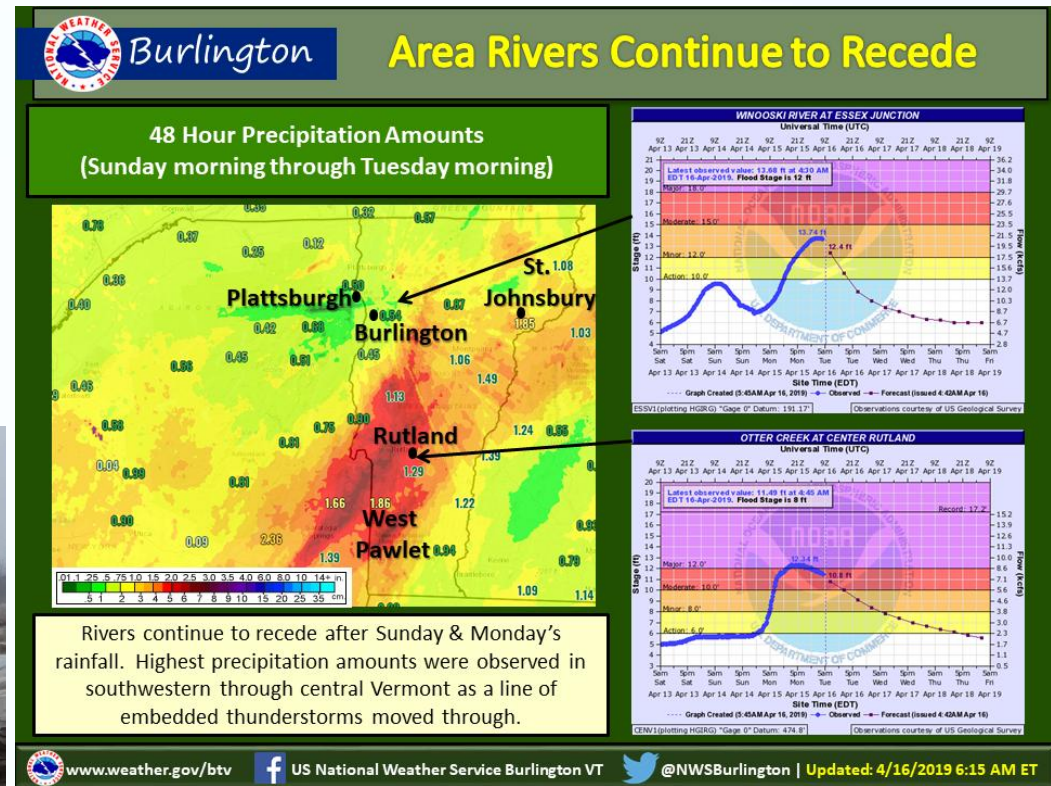
Flooding

Flash flooding from thunderstorms in Vermont on April 15.



Ice jam on the Aroostook River on April 19. Photo courtesy of NWS Caribou

Flood warnings along the Connecticut River due to heavy rain and upstream snow melt on April 22. Image courtesy of NWS Boston



Severe Weather: April 14–15



Photo courtesy of NWS State College

13 tornadoes:

- 9 in Pennsylvania (EF-0 to EF-2)
- 2 in Delaware (EF-1 and EF-2)
 - First April tornadoes in 25+ years
 - State averages 0 tornadoes in April and 1 annually
- 1 in New York (EF-1)
- 1 in Maryland (EF-0)

Straight-line winds of up to 105 mph

Golf ball-sized hail

Heavy rain - flooding

Most occurred in the early morning

Severe Weather: April 19



Photo courtesy of NWS State College

5 tornadoes in Pennsylvania (EF-1s and EF-2s):

- First April tornado in Fulton County

14 tornadoes total in April in Pennsylvania:

- Greatest number of tornadoes for April since records began in 1950
- State typically sees most tornadoes of all Northeast states
- State averages 2 April tornadoes and 15 annually

Severe Weather: April 26

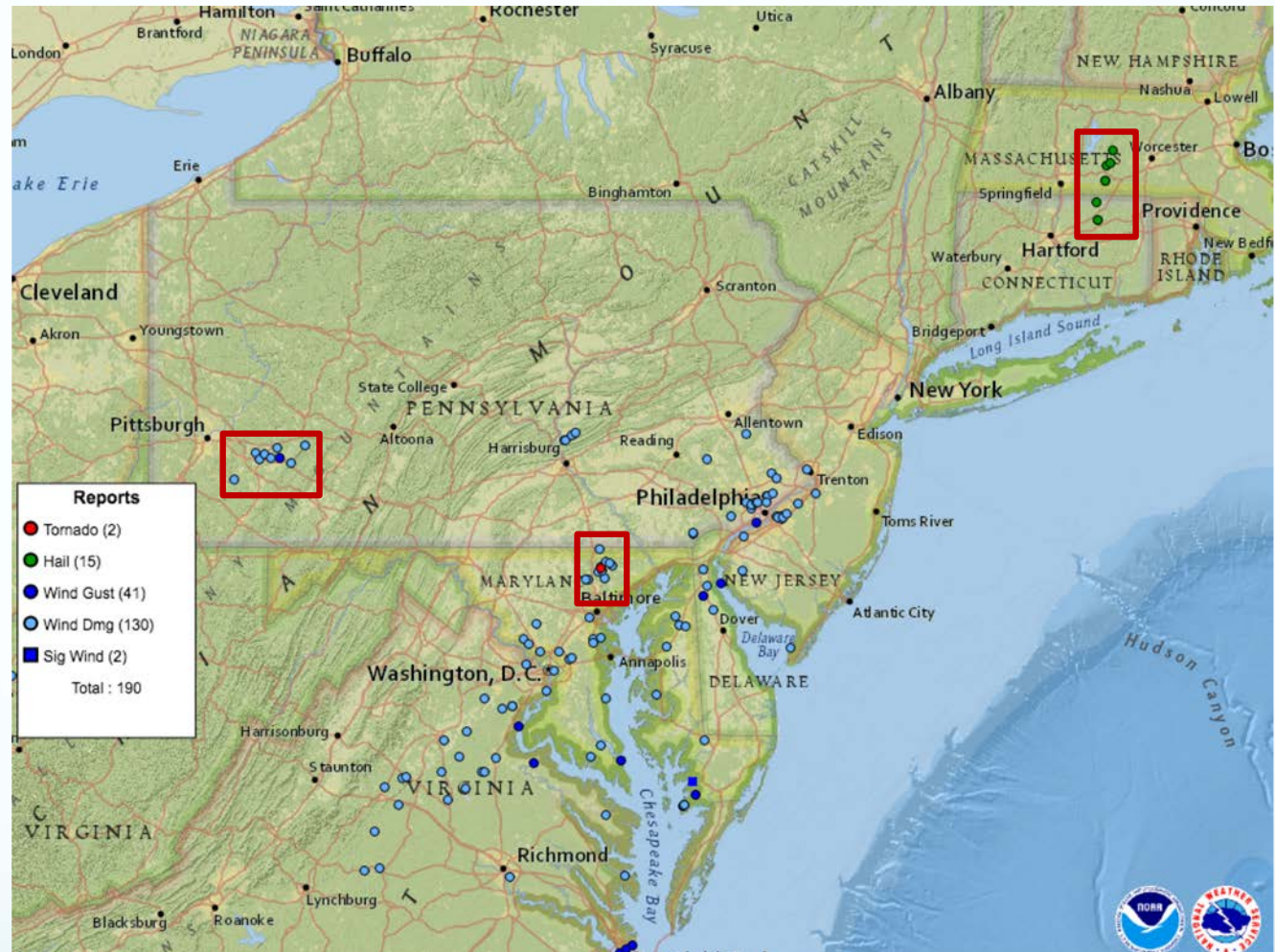
EF-1 tornado in Maryland:

- Second tornado this month (average is 1)

Straight-line winds in western Pennsylvania

Golf ball-sized hail in Massachusetts:

- only 3rd time hail that size or larger reported in April since 1950 (last in 1969)



On April 8:

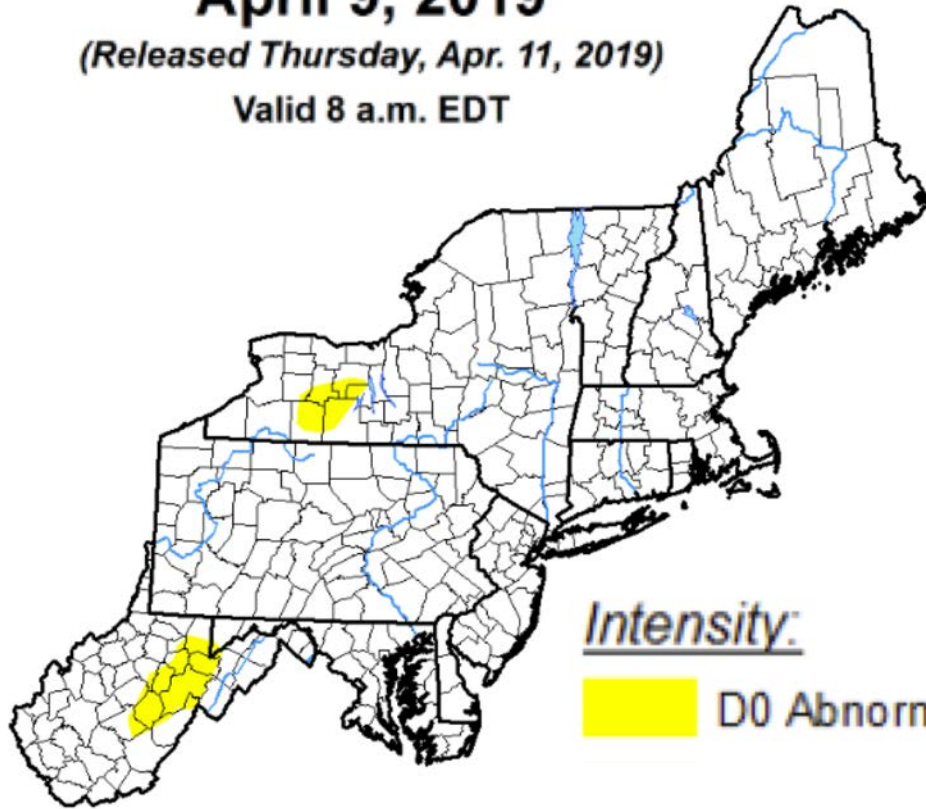
- 3-inch hailstone near Princeton, WV - largest hailstone to fall in the state during April

Drought Monitor

April 9, 2019

(Released Thursday, Apr. 11, 2019)

Valid 8 a.m. EDT



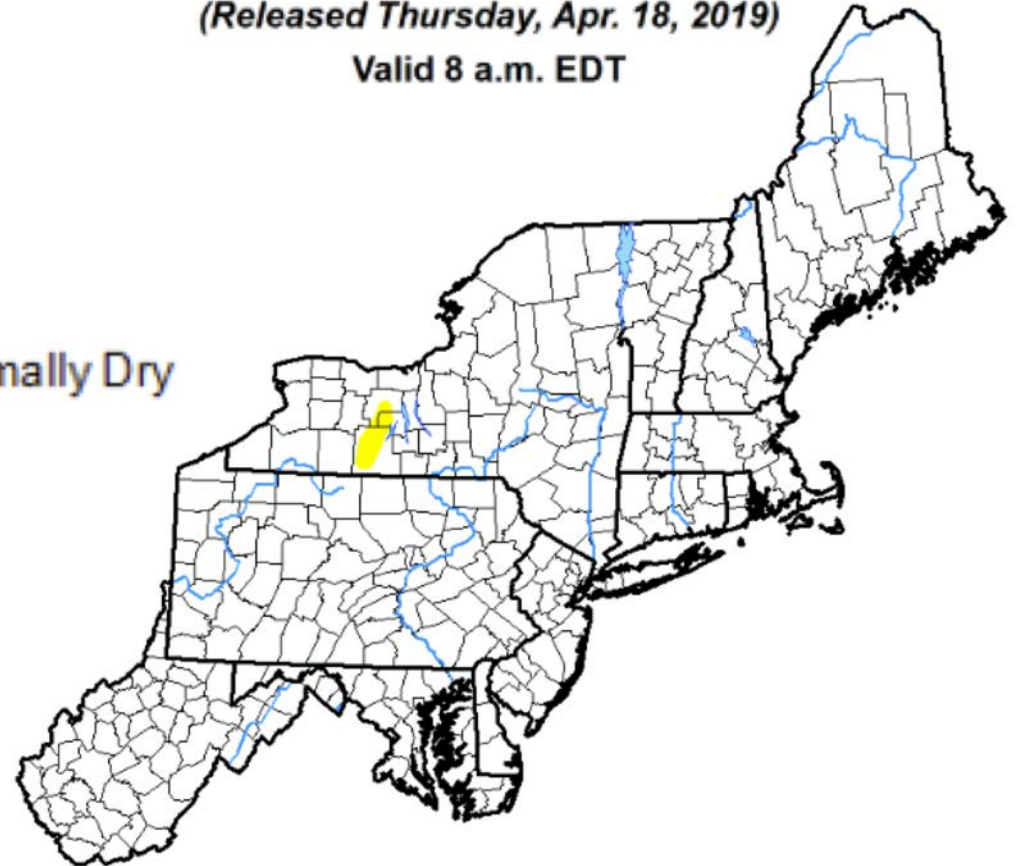
Intensity:

■ D0 Abnormally Dry

April 16, 2019

(Released Thursday, Apr. 18, 2019)

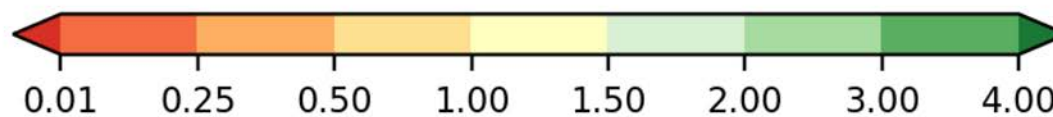
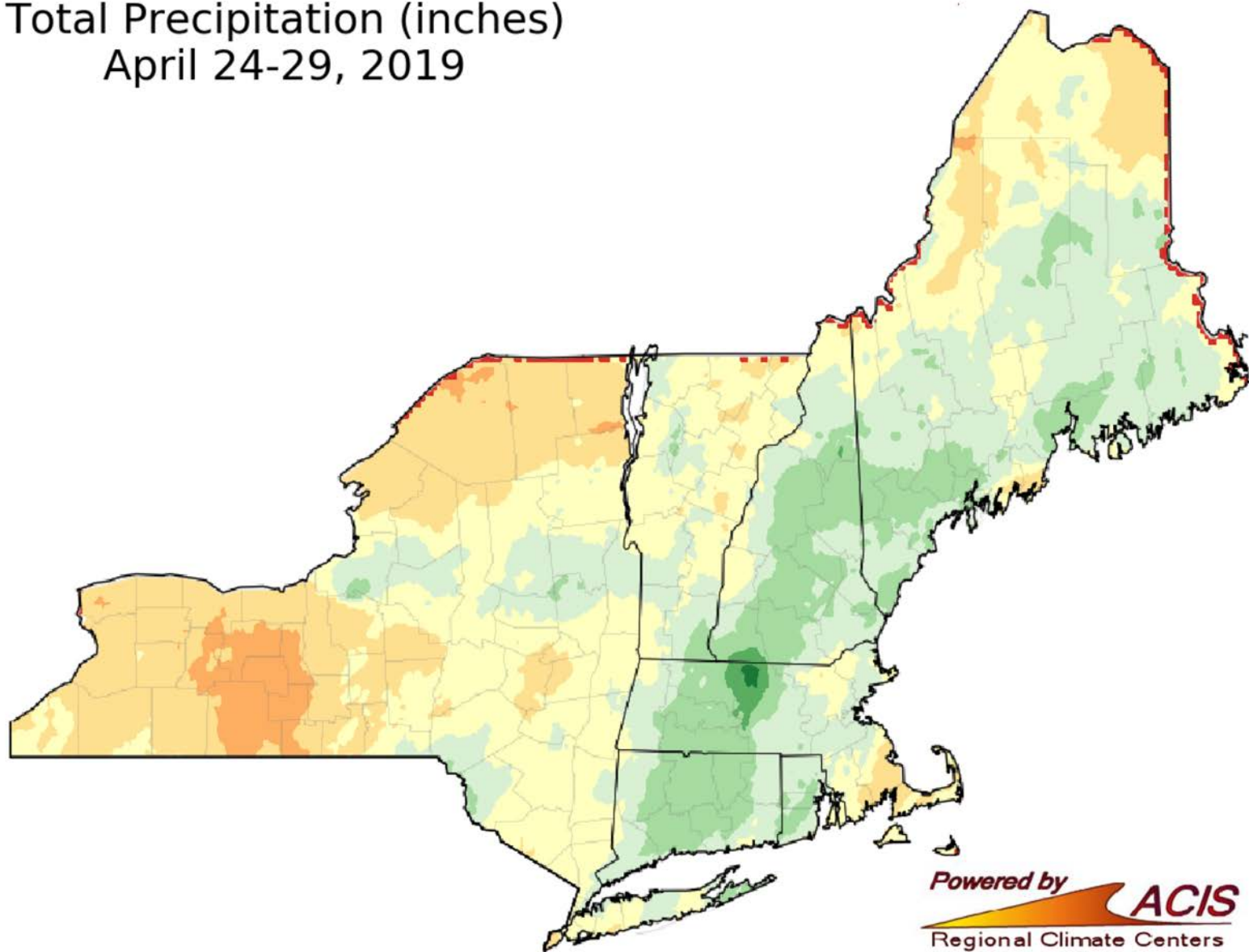
Valid 8 a.m. EDT



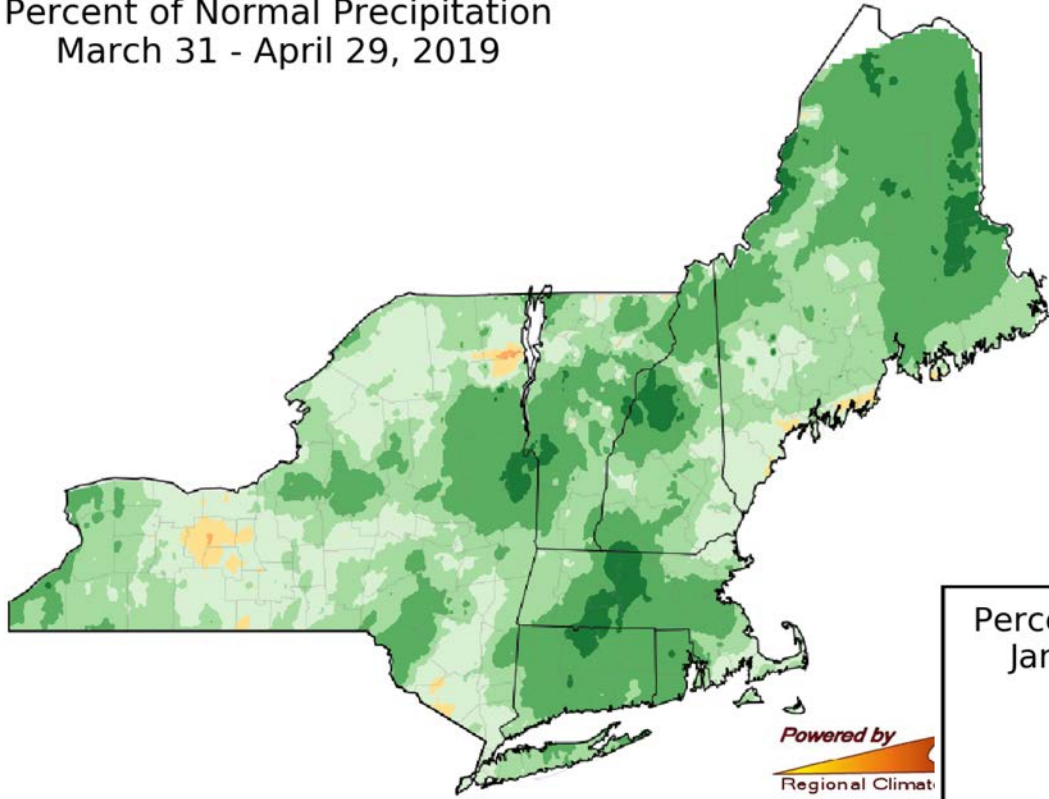
Week	None	D0-D4
2019-04-09	97.20	2.80
2019-04-16	99.54	0.46

No abnormal dryness or drought as of April 23

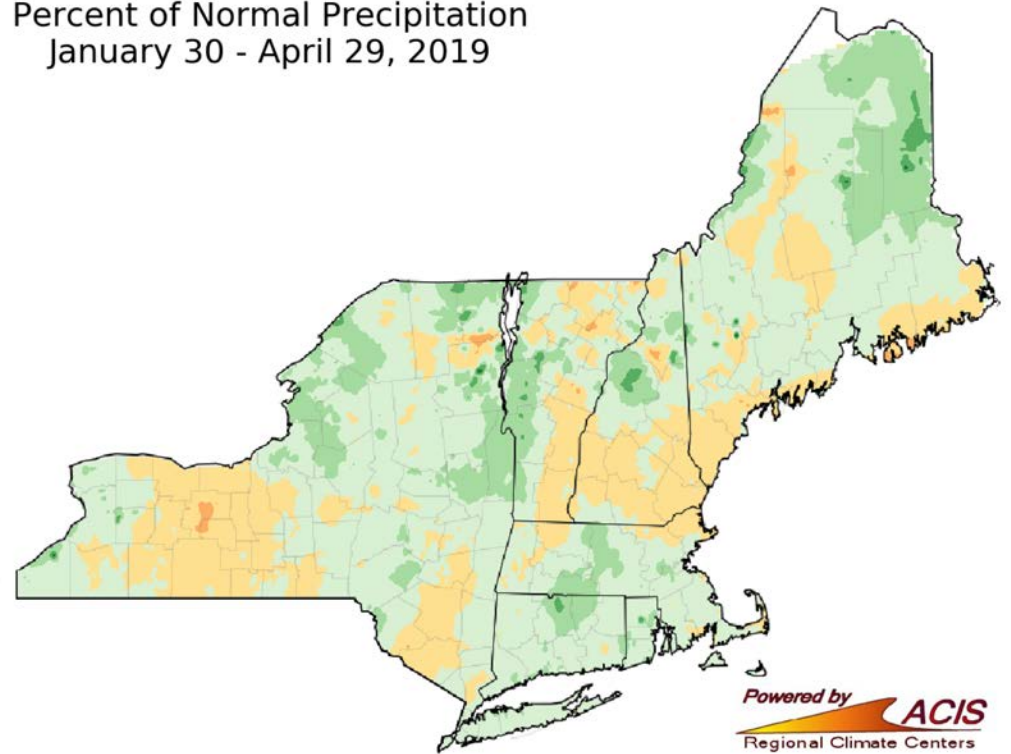
Total Precipitation (inches) April 24-29, 2019



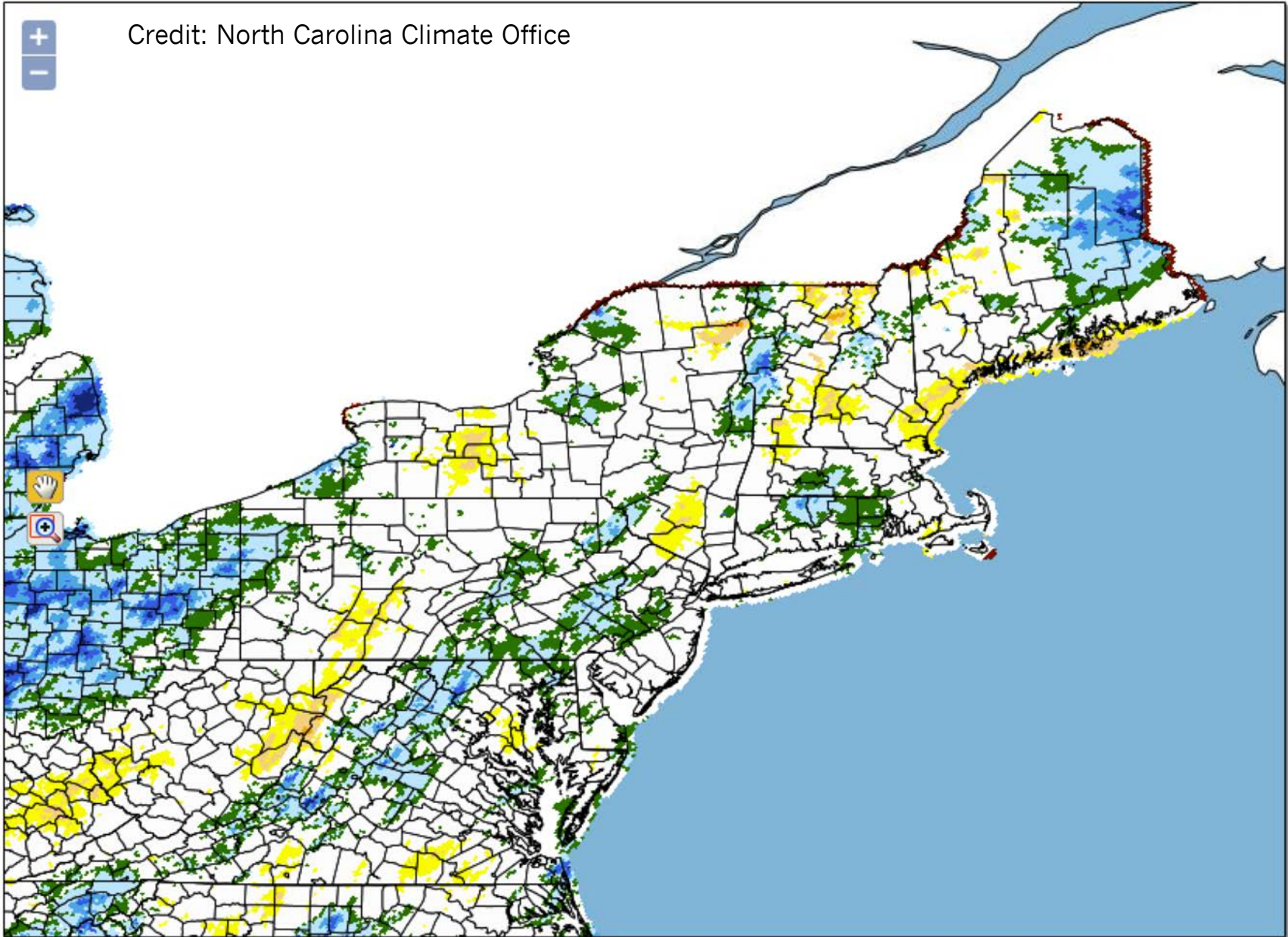
Percent of Normal Precipitation
March 31 - April 29, 2019



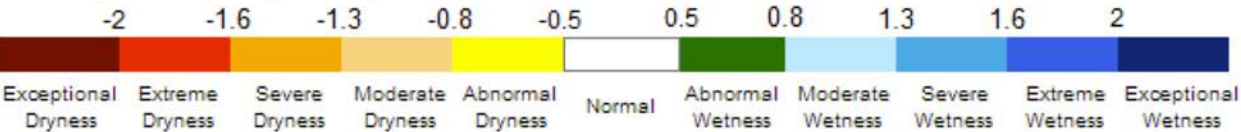
Percent of Normal Precipitation
January 30 - April 29, 2019



Credit: North Carolina Climate Office



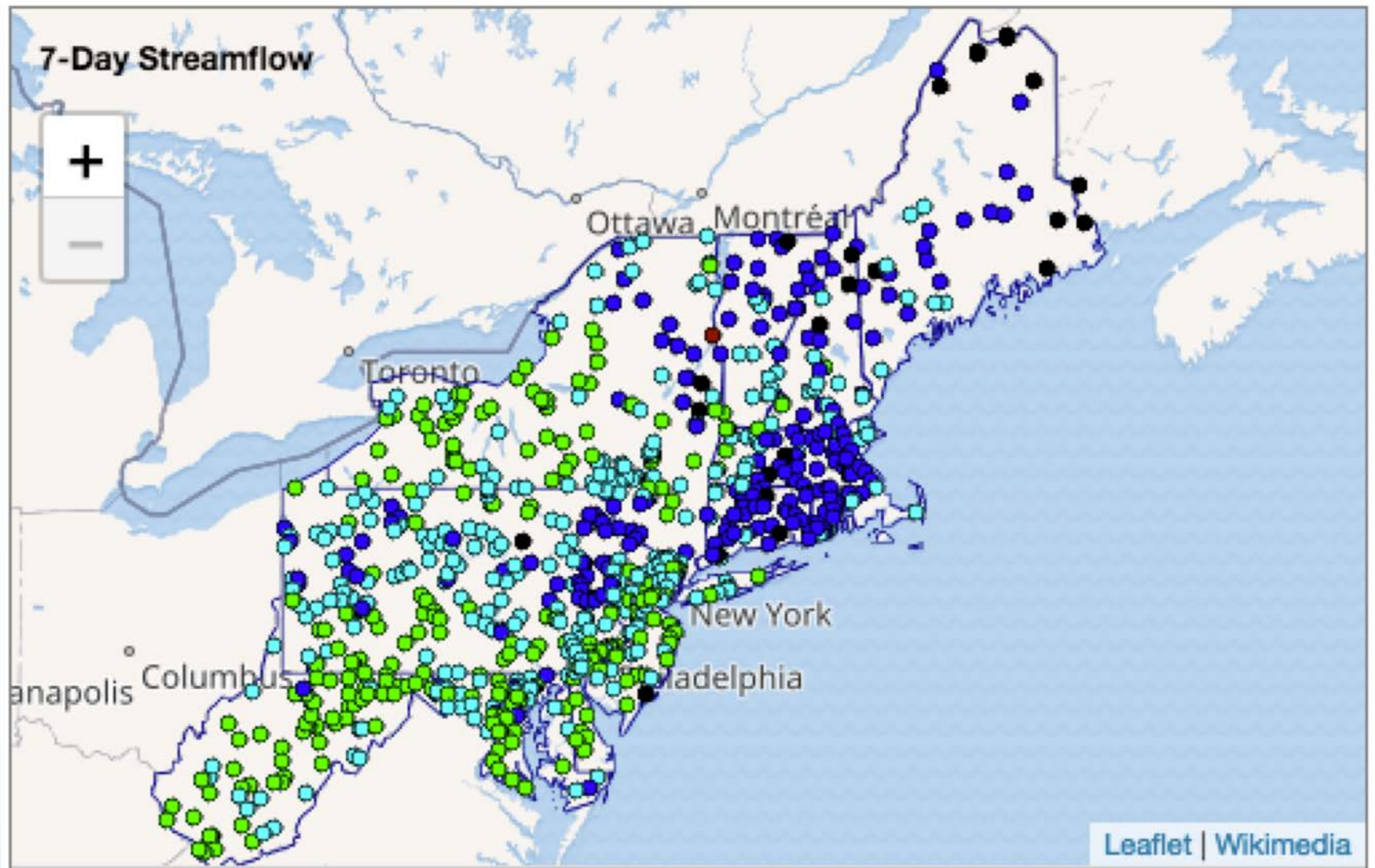
60 day SPI for April 28, 2019



Transparency:

DOWNLOAD
GEOTIFF



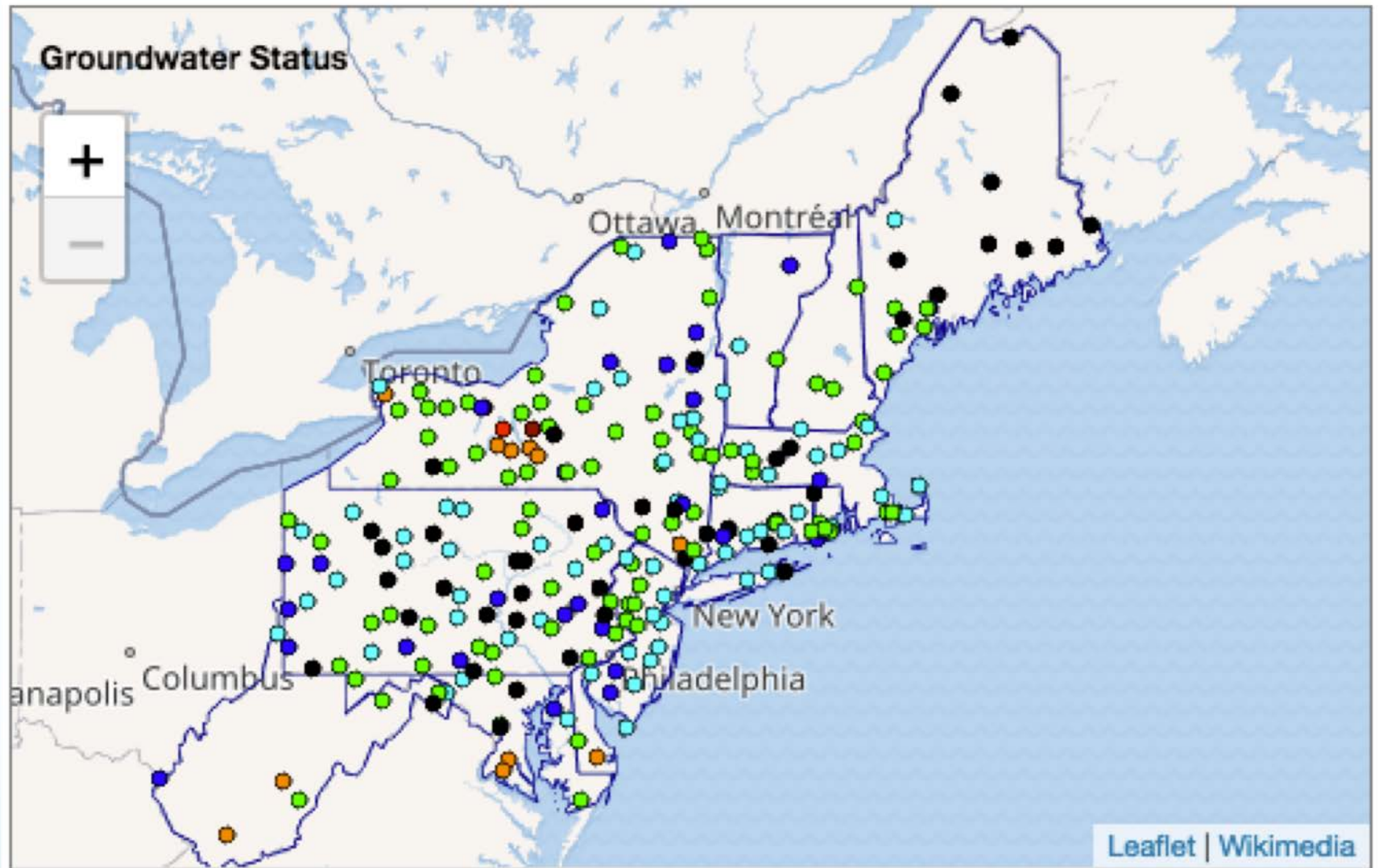


Explanation - Percentile Classes

Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High	
	<10%	10-24%	25-75%	76-90%	>90%		

Data provided by [USGS WaterWatch - Streamflow](#).





Explanation - Percentile Classes

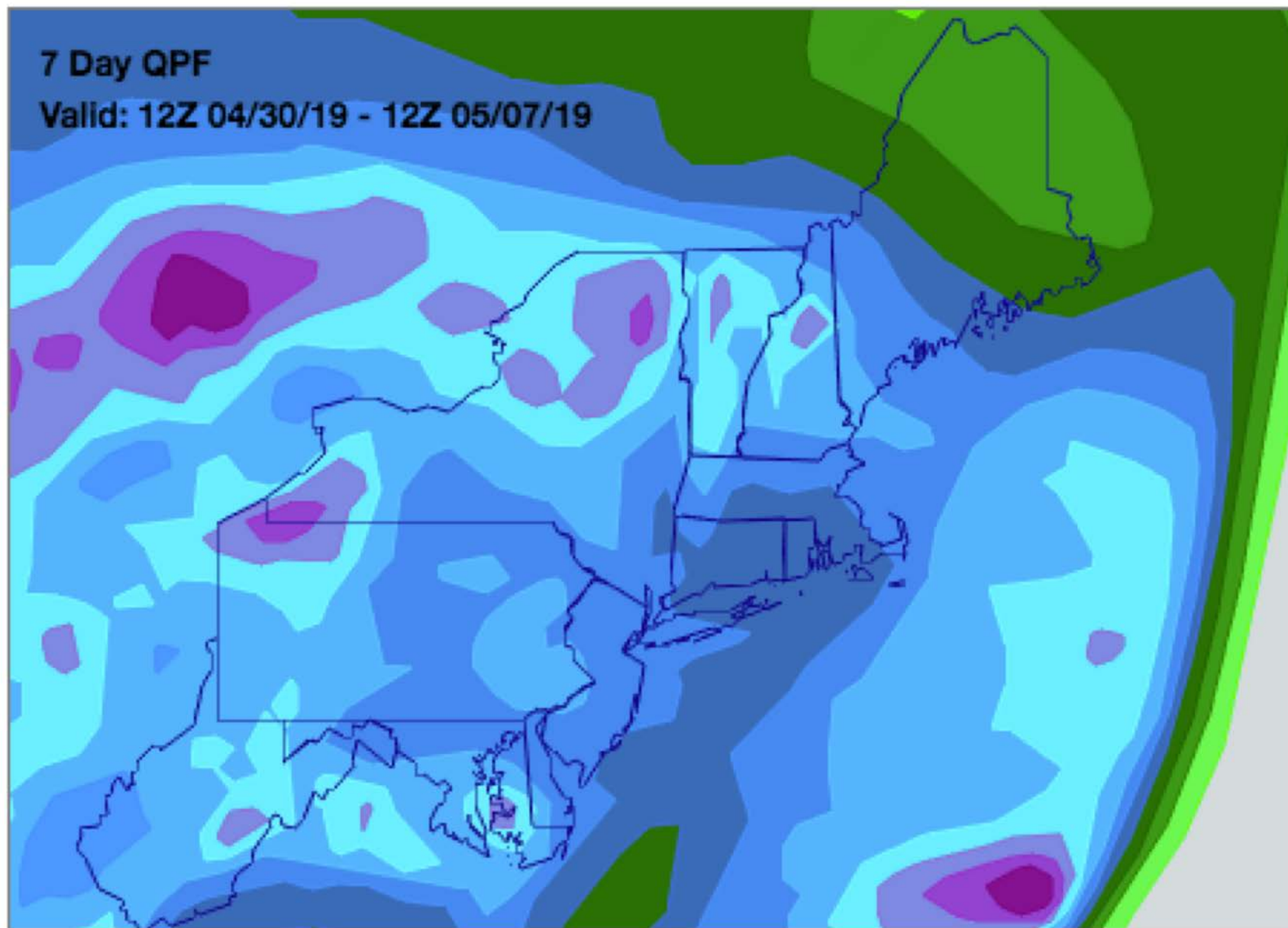
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High	
	<10%	10-24%	25-75%	76-90%	>90%		

Data provided by [USGS Groundwater Watch](#) - [Climate Response Network](#).



7 Day QPF

Valid: 12Z 04/30/19 - 12Z 05/07/19



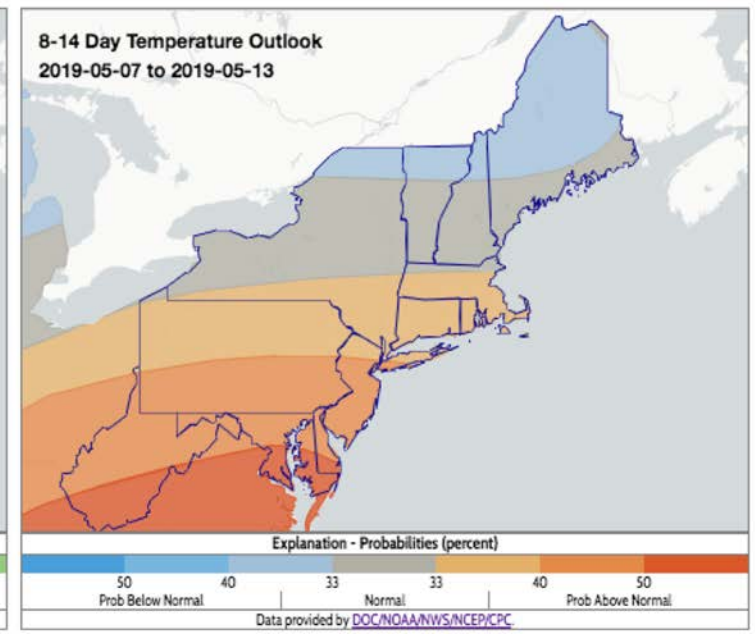
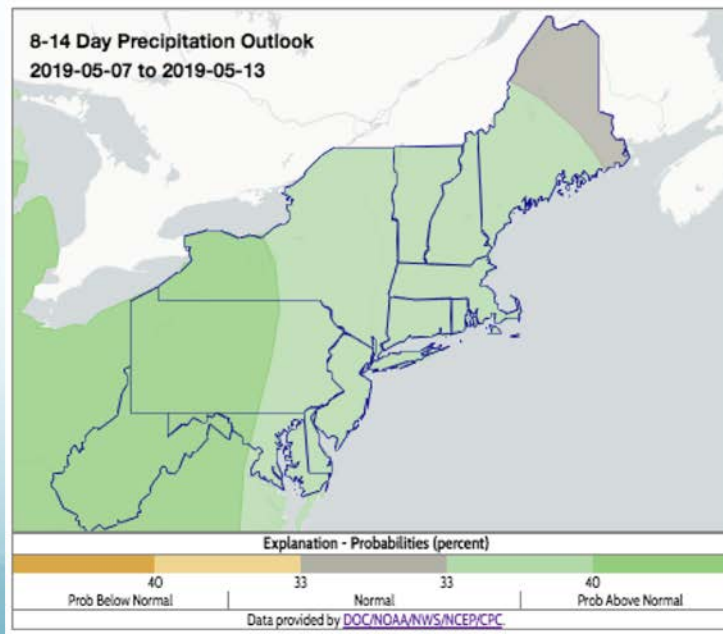
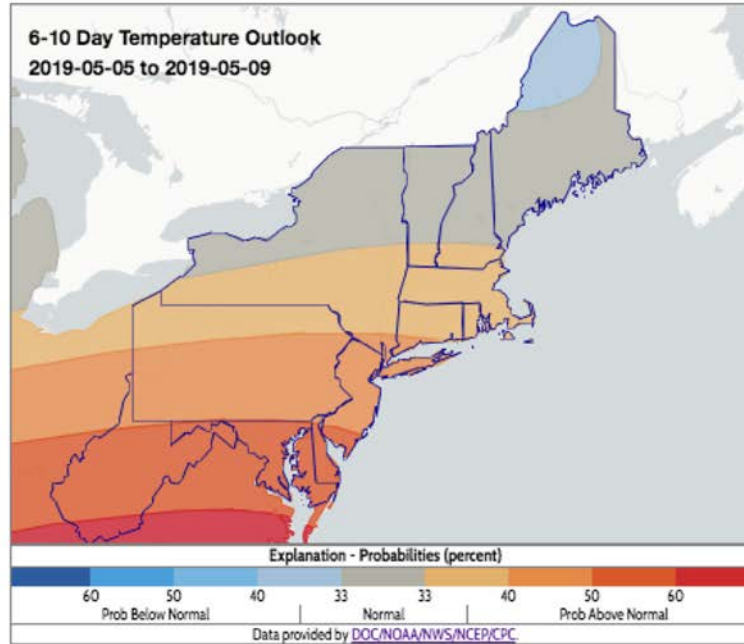
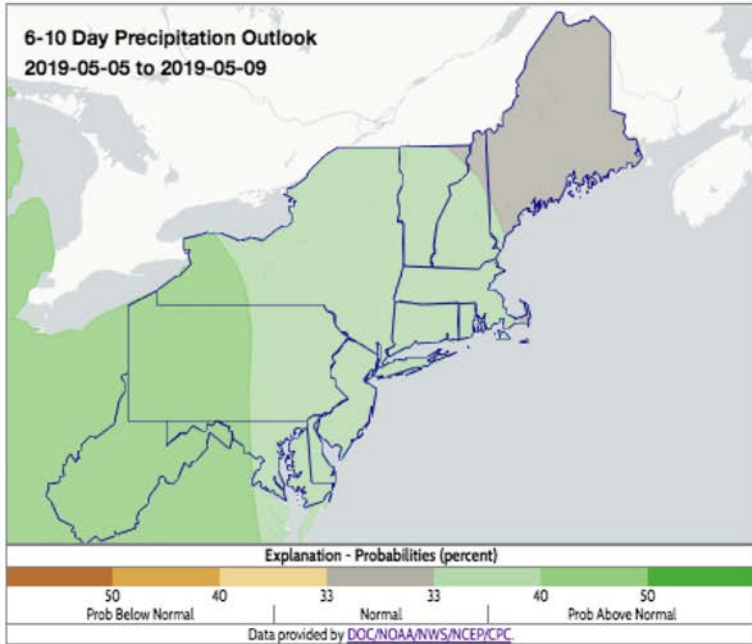
Explanation - Forecast precipitation (inches)



Data provided by [DOC/NOAA/NWS/NCEP/WPC](#).



Short-term Outlooks



Contact Information

- nrcc@cornell.edu
- 607-255-1751

Upcoming Webinars

- Thursday, May 30 at 9:30 am
 - Heat health and NCA4
- Thursday, June 27 at 9:30 am
 - TBD
- Tuesday, July 30 at 9:30 am
 - TBD

www.nrcc.cornell.edu